

**ABSTRACT**

Flow capacity controllers (FCC) are provided in each mobile station to compute an uplink capacity for each data flow according to a QoS. A capacity  
5 request controller (CRC) changes a capacity request in consideration of the priority level of each data flow and transmits the changed capacity request to the base station. A capacity scheduler (CS) provided in the base station computes an allowable capacity according to the capacity request and transmits the capacity allocation from the base station to the mobile station.